PATENT CLAIMS

- 1. A laser welding device for welding one or more said components (7), comprising one or more said laser welding heads (2), **characterized in that** said laser welding device (1) has one or more said moving means (8) for said components (7) for a relative movement in relation to said laser welding head (2), which is designed as a remote laser and is arranged at a spaced location from said component (7).
- 2. A laser welding device in accordance with claim 1, characterized in that said moving means (8) is designed as a said component conveyor (9).

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- 3. A laser welding device in accordance with claim 1, characterized in that said moving means (8) are designed as a said multiaxial robot (10).
- 4. A laser welding device in accordance with claim 1, 2 or 3, characterized in that said laser welding head (2) are arranged stationarily.
- 5. A laser welding device in accordance with claim 1, 2 or 3, characterized in that said laser welding head (2) is arranged nonstationarily by means of a said moving unit (11).
- 6. A laser welding device in accordance with one of the above claims, **characterized** in that said laser welding head (2) has one or more scanner heads for the controllable deflection of said laser beam (4).
 - 7. A laser welding device in accordance with one of the above claims, characterized

in that said moving means (8) for said components (7) is controlled according to the focal distance.

- 8. A laser welding device in accordance with one of the above claims, characterized in that said laser welding head (2) has a focal distance of approx. 200 mm to 400 mm.
- 9. A laser welding device in accordance with one of the above claims, characterized in that a plurality of said laser welding heads (2) are connected to a said common external laser beam source (3) by means of a said controllable beam switch (6) and said laser beam guides (5).

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- 10. A process for the laser welding of one or more said components (7) by means of one or more said laser welding heads (2), **characterized in that** said components (7) are guided and moved during welding by one or more said moving means (8) by a preferably multiaxial relative movement in relation to said laser welding head (2), which is designed as a remote laser and is arranged at a spaced location from said component (7).
- 11. A process for laser welding in accordance with claim 10, characterized in that said components (7) are moved by one or more said multiaxial robots (10).